

FIG. 1

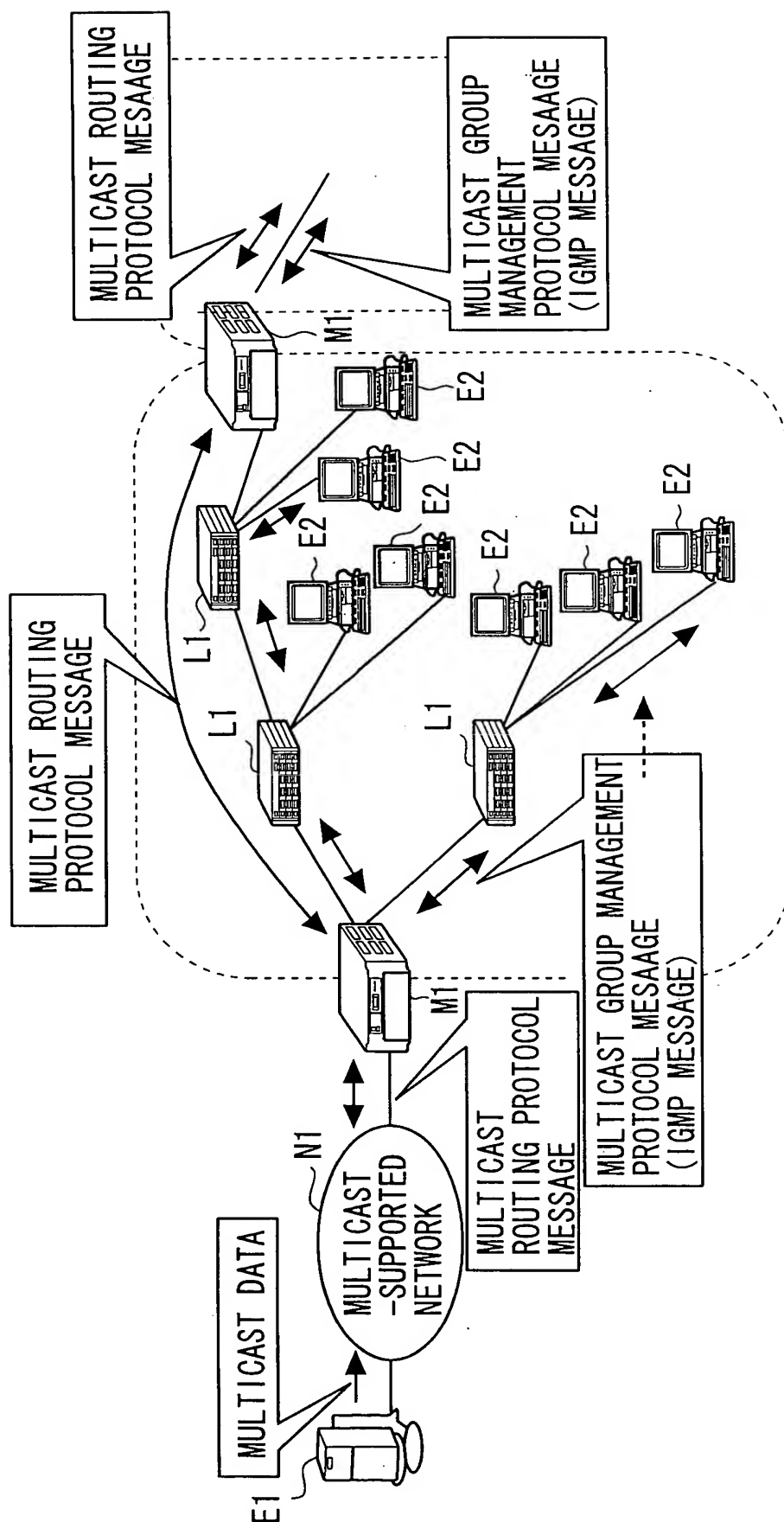


FIG. 2

PRIOR ART

CLASS-D ADDRESS	APPLICATION
224. 0. 0. 0	RESERVED
224. 0. 0. 1~224. 0. 0. 255 224. 0. 0. 1-ALL-SYSTEMS 224. 0. 0. 2-ALL-ROUTERS 224. 0. 0. 4-DVMRP ROUTERS 224. 0. 0. 5-OSFP-ALL . . .	ASSIGNMENT FOR ROUTING PROTOCOL ETC.
224. 0. 1. 0~238. 255. 255. 255 224. 0. 1. 7-AUDIO NEWS 224. 0. 1. 11-VOICE OF IETF MEETING 224. 0. 1. 12-VIDEO OF IETF MEETING 224. 0. 1. 16-MUSIC SERVICE . . .	ASSIGNMENT FOR PUBLIC USE
239. 0. 0. 0~239. 255. 255. 255	ASSIGNMENT FOR LOCAL SITE

FIG. 3A

PRIOR ART

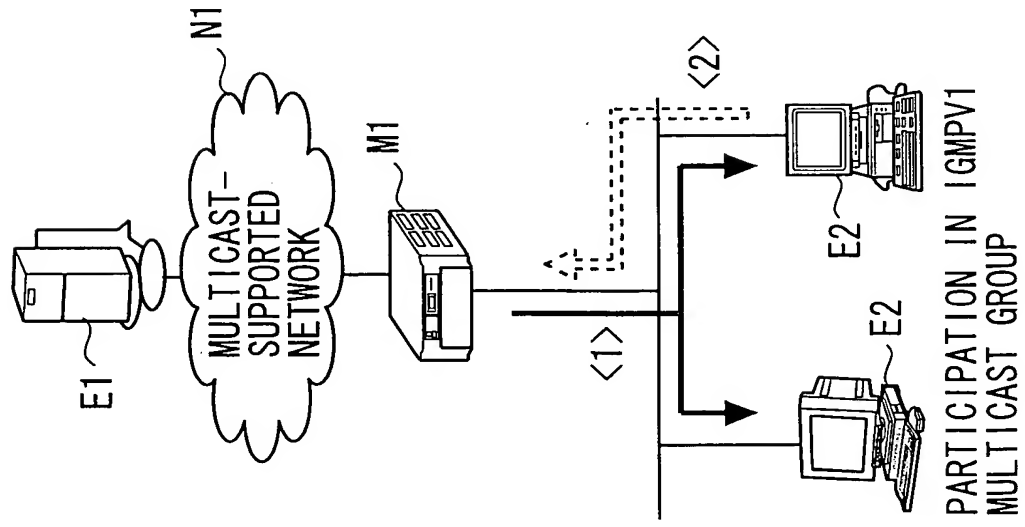


FIG. 3B

PRIOR ART

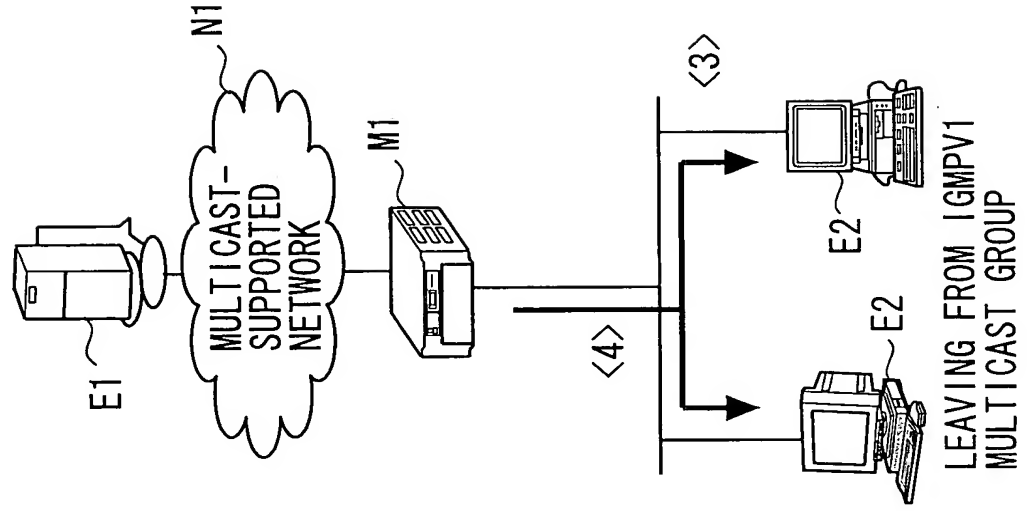
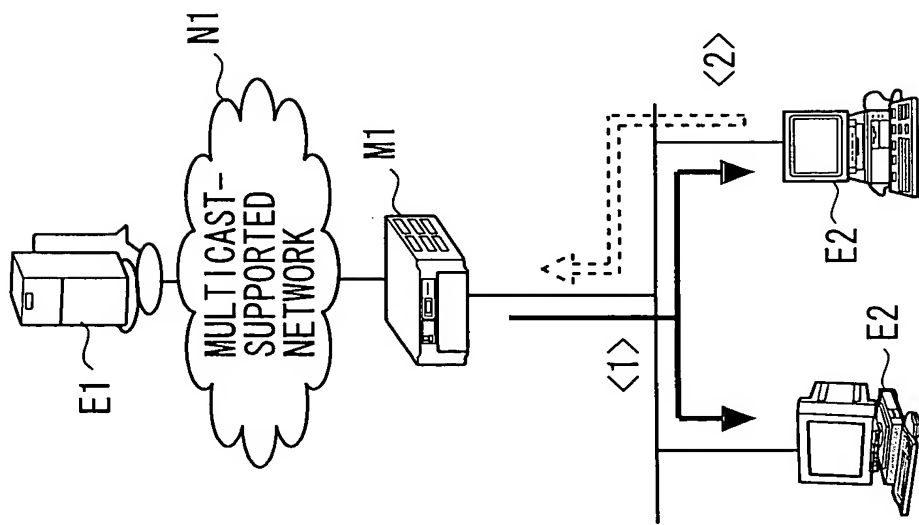


FIG. 4A

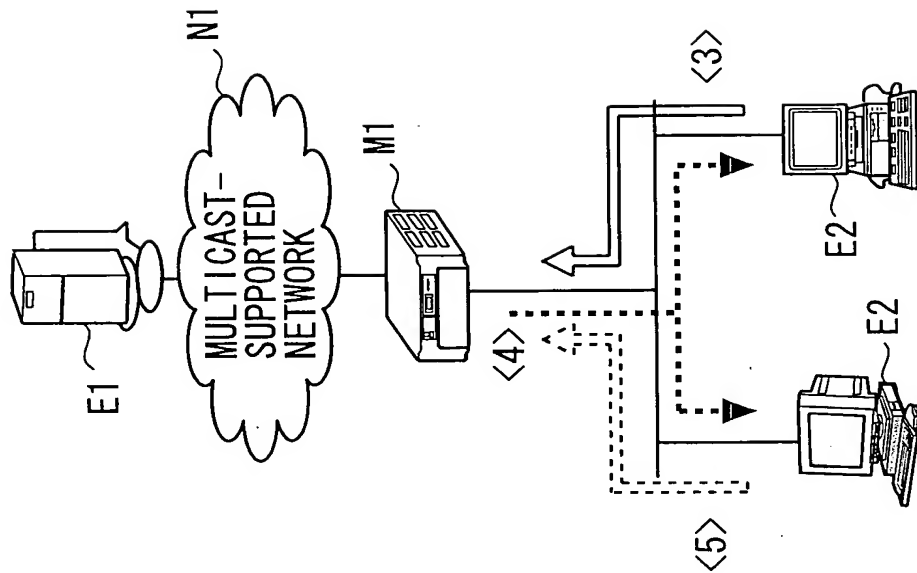
PRIOR ART



PARTICIPATION IN IGMPV2
MULTICAST GROUP

FIG. 4B

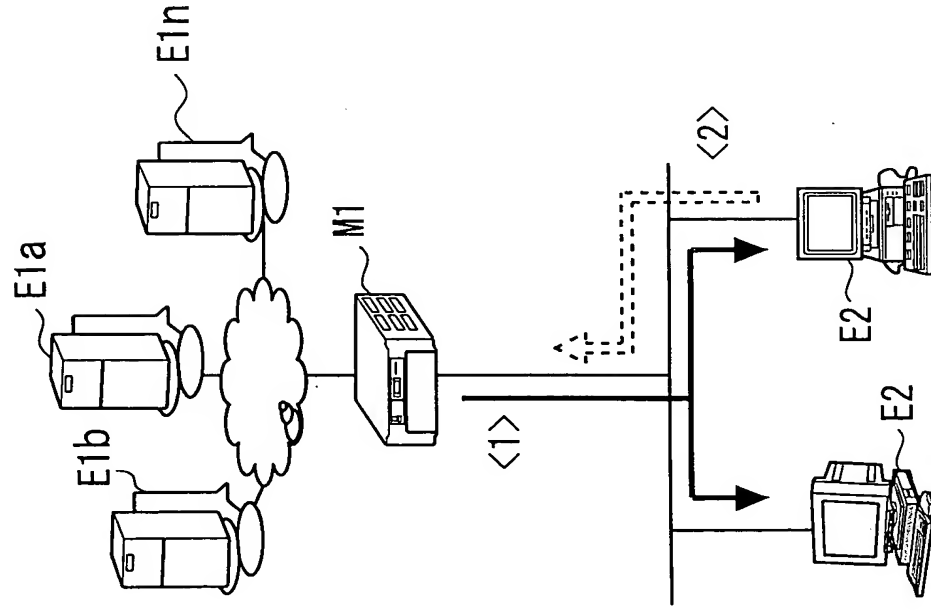
PRIOR ART



LEAVING FROM IGMPV2
MULTICAST GROUP

FIG. 5A

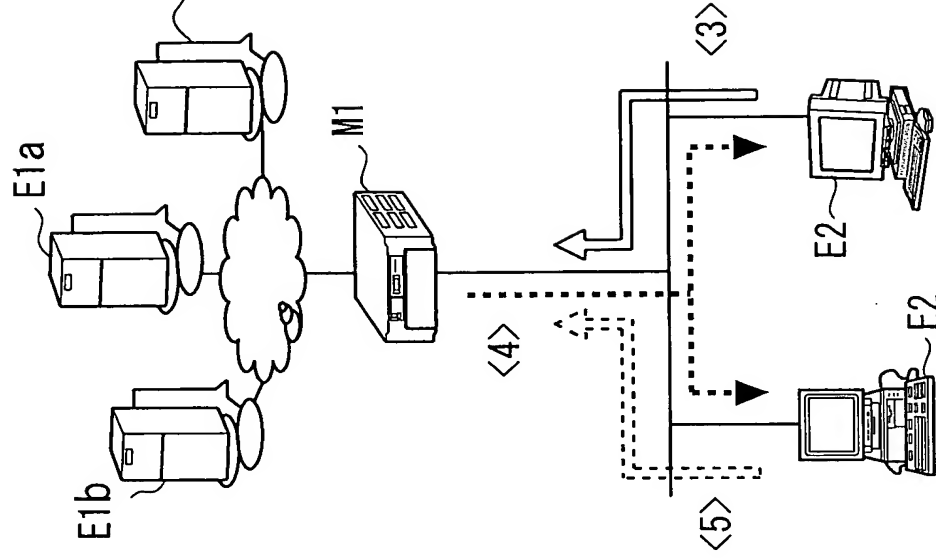
PRIOR ART



PARTICIPATION IN IGMPV3
MULTICAST GROUP

FIG. 5B

PRIOR ART



LEAVING FROM IGMPV3
MULTICAST GROUP

FIG. 6

PRIOR ART

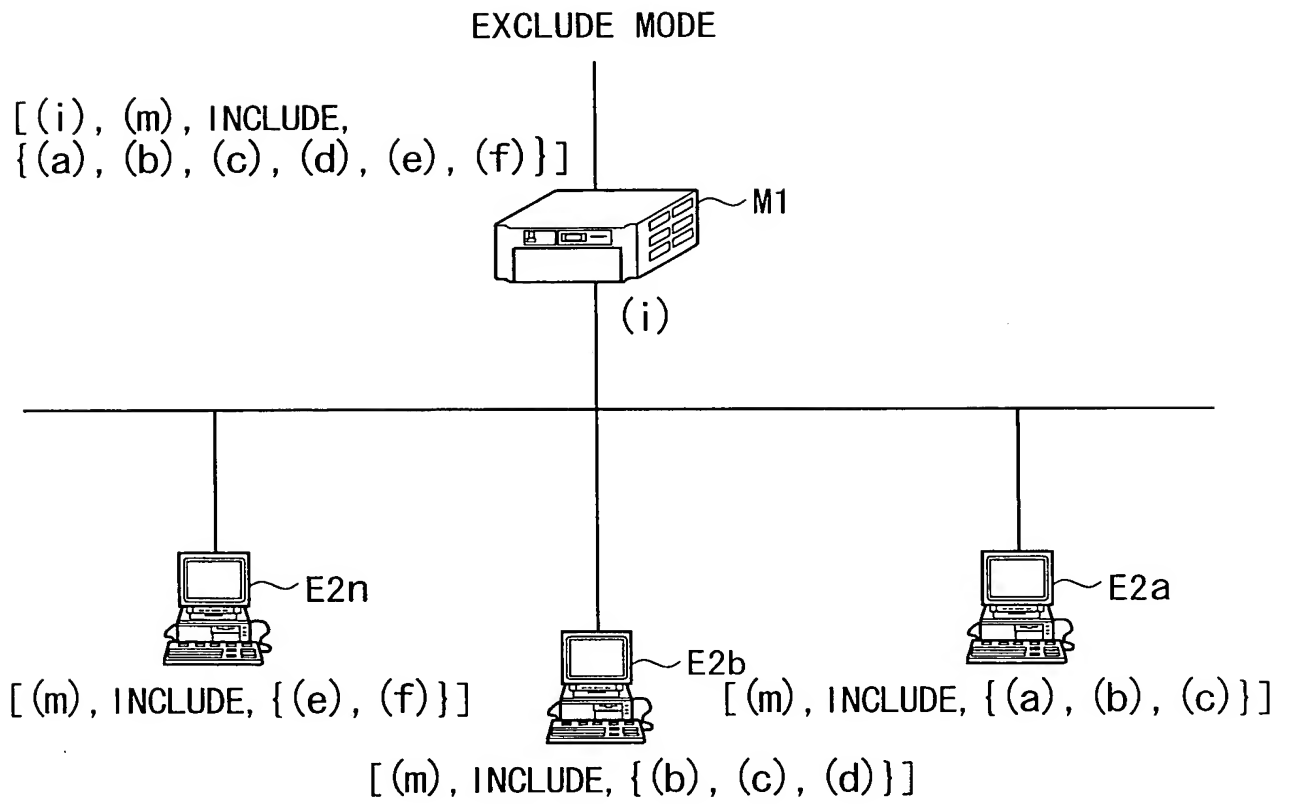


FIG. 7

PRIOR ART

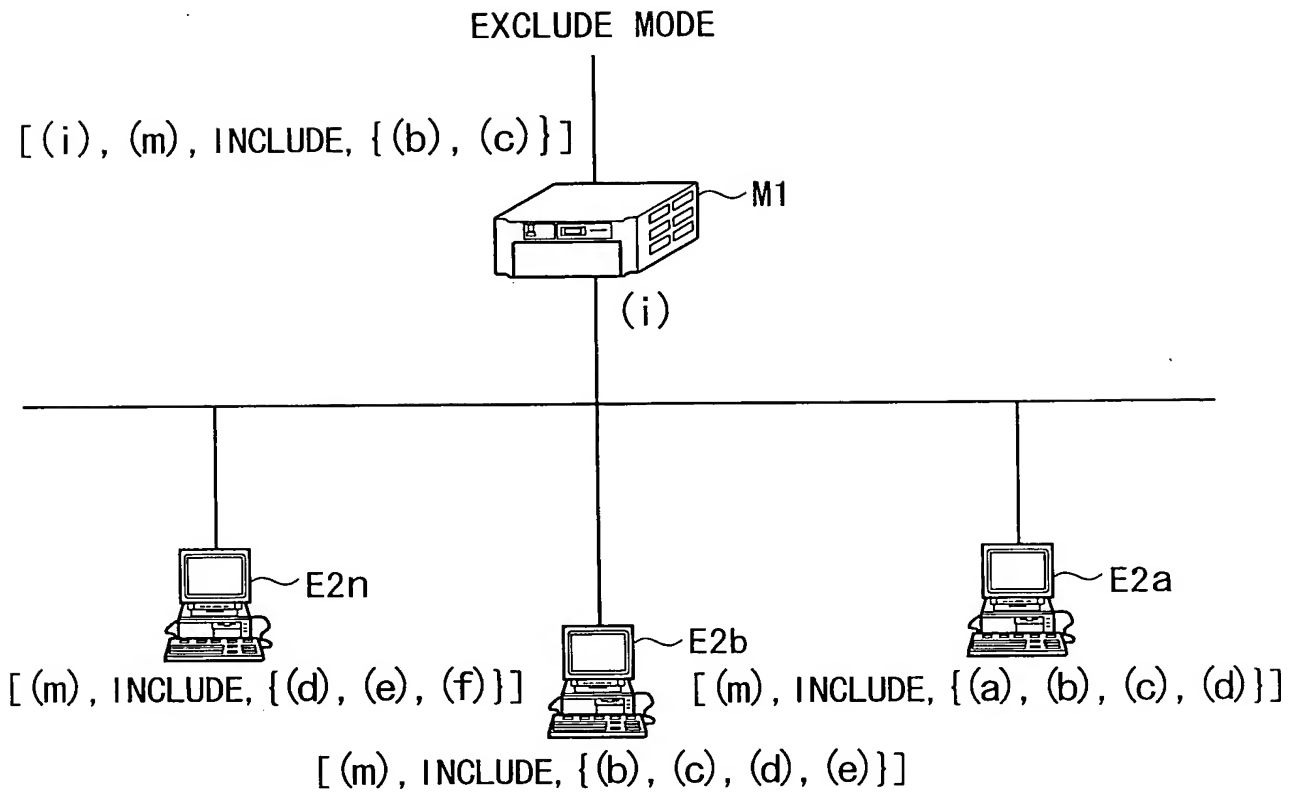


FIG. 8

PRIOR ART

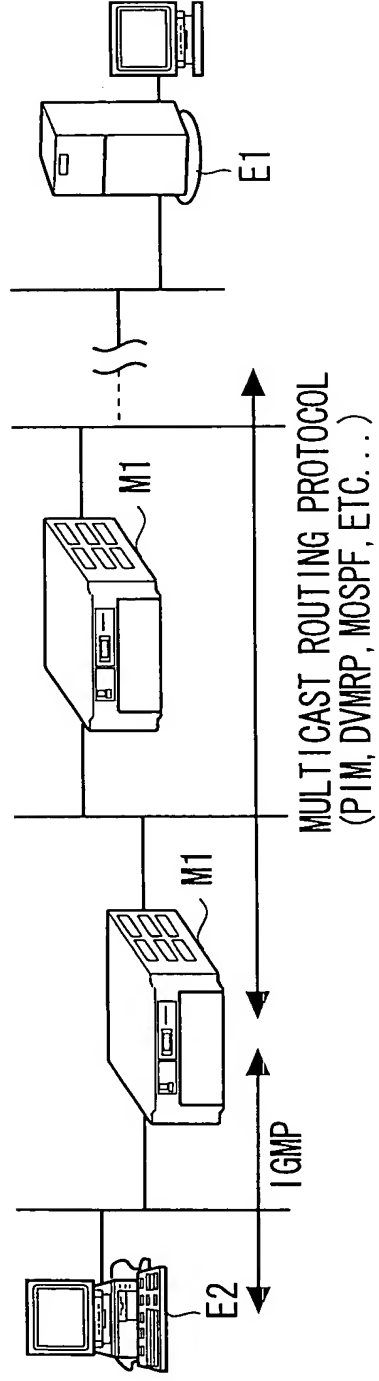


FIG. 9

PRIOR ART

RFC 1112

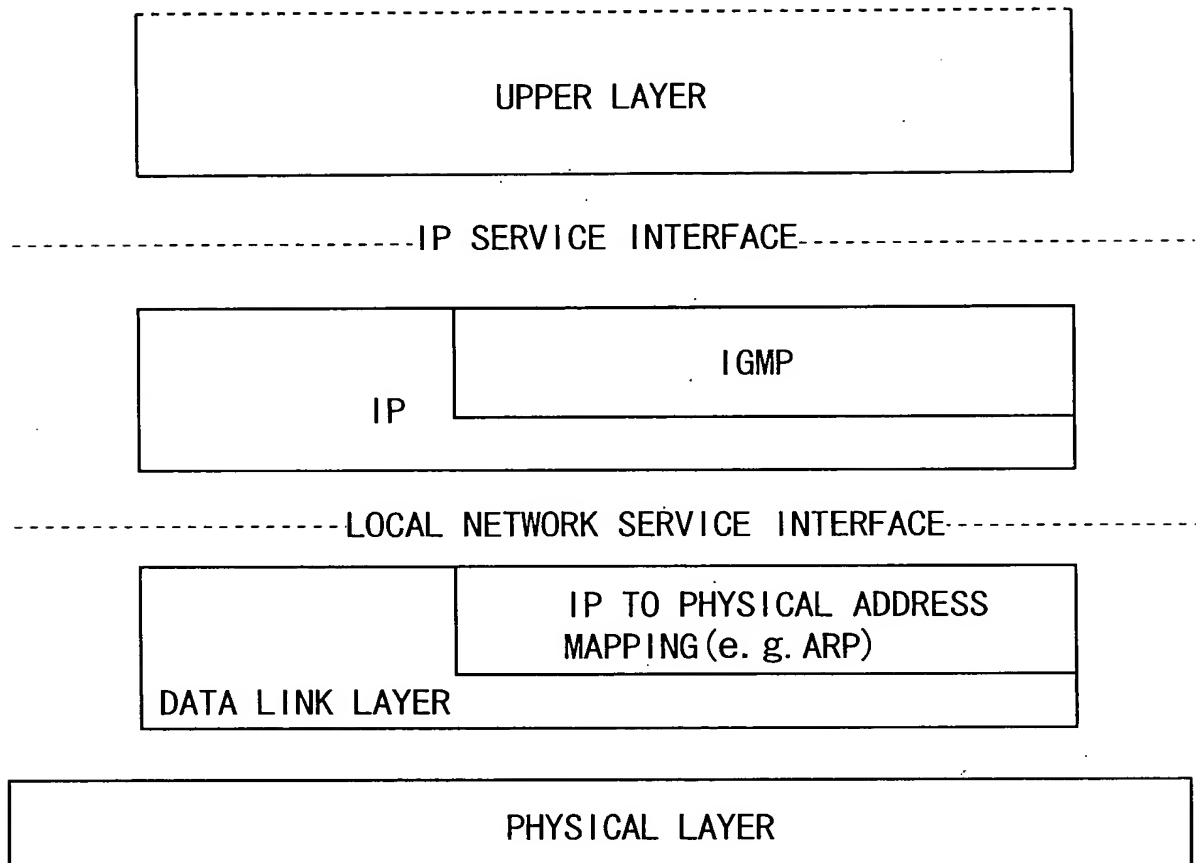


FIG. 10

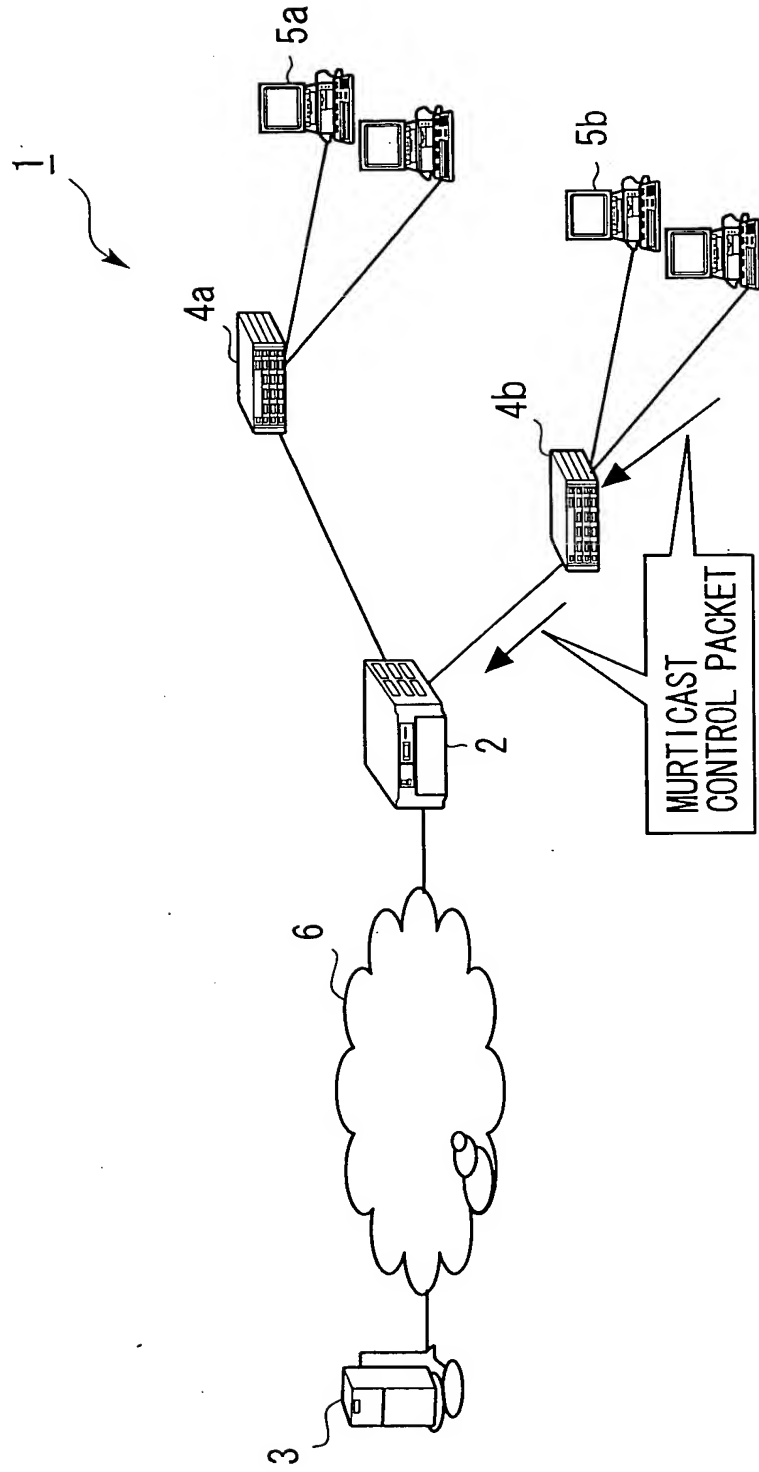


FIG. 11

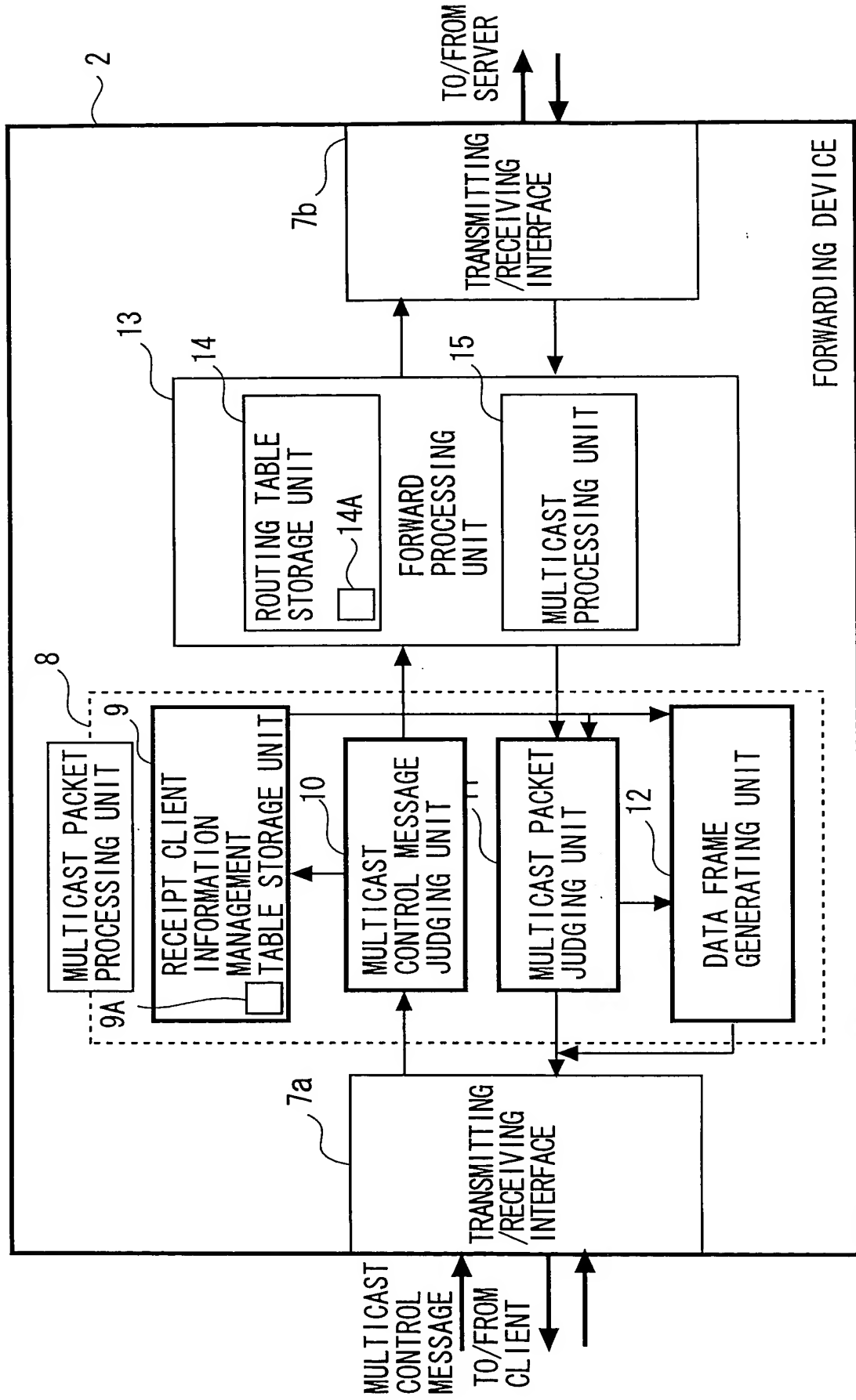


FIG. 12

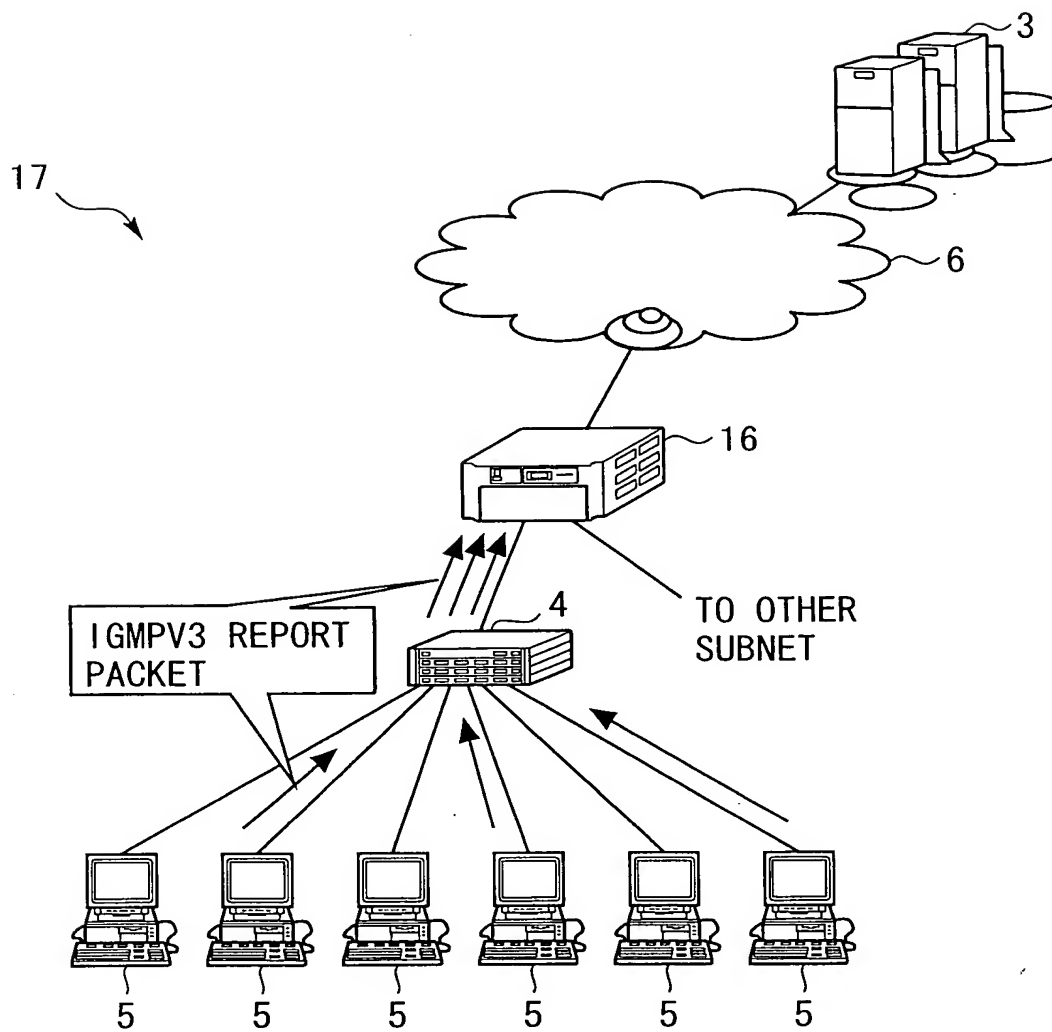


FIG. 13

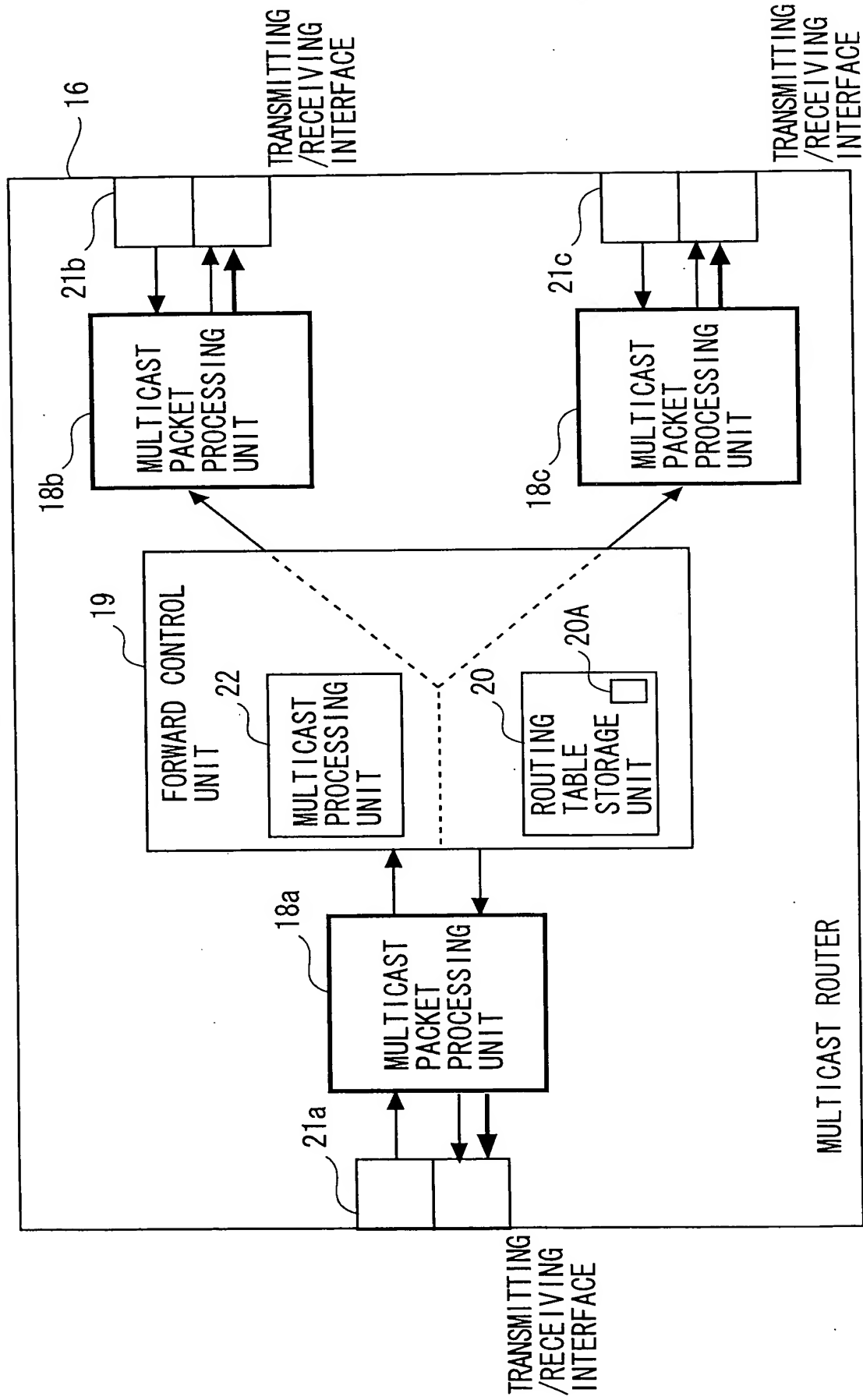


FIG. 14

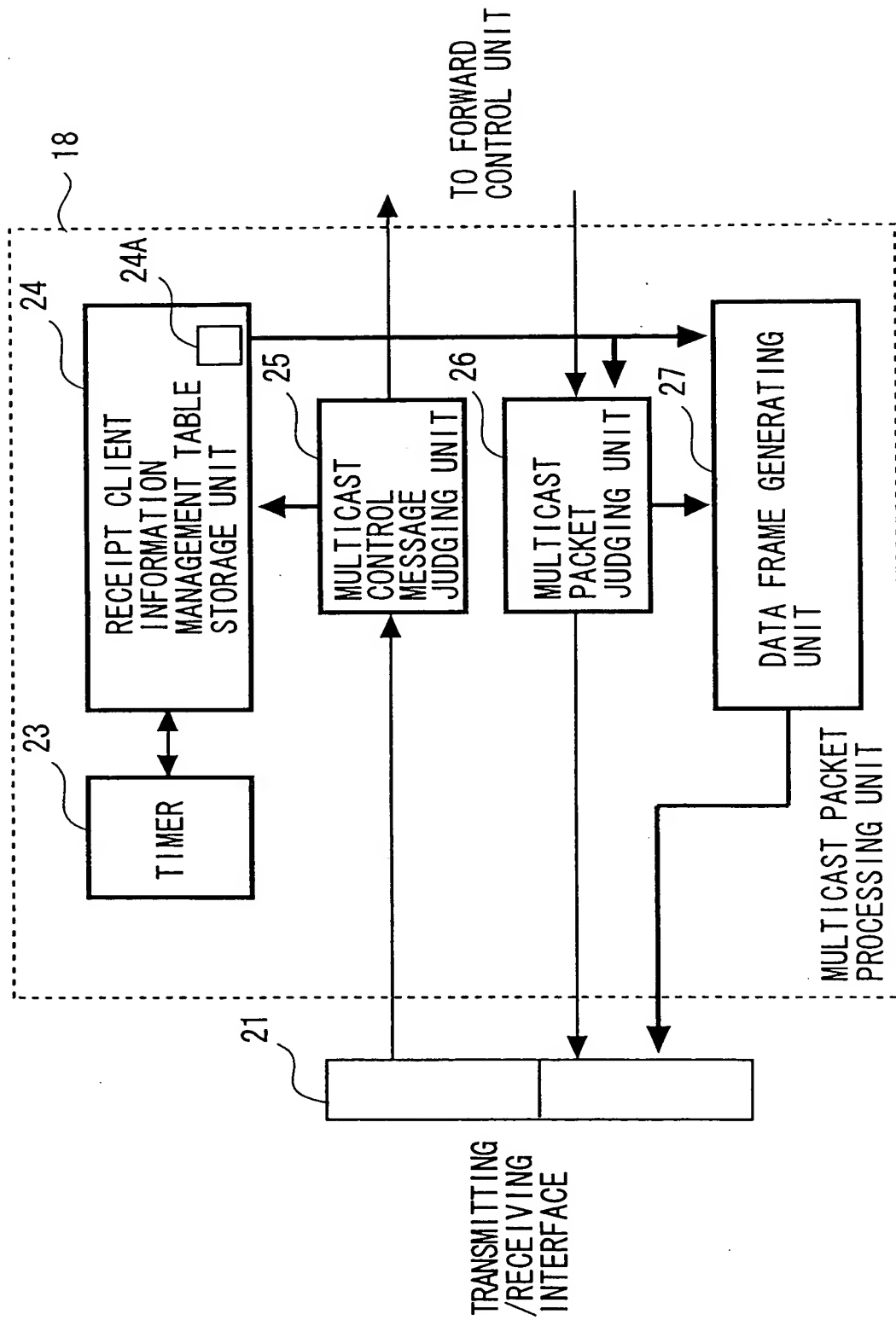


FIG. 15

24A

ENTRY NUMBER	CLIENT ADDRESS	CLIENT MAC ADDRESS	MULTICAST ADDRESS	SOURCE ADDRESS	FILTER MODE
1	210.23.171.aa	xx:xx:xx:xx:12:34	238.0.0.123	61.143.221.2	INCLUDE
				61.143.221.3	
				61.143.221.4	
2	210.23.171.bb	xx:xx:xx:xx:56:78	238.225.13.33	201.67.113.65	INCLUDE
				211.67.0.3	
				211.67.0.5	
3	210.23.171.cc	xx:xx:xx:xx:90:12	239.128.0.23	174.67.119.68	INCLUDE
4	210.23.171.dd	xx:xx:xx:xx:34:56	238.0.0.123	61.143.221.2	EXCLUDE
				61.143.221.5	
				61.143.221.6	
5	210.23.171.ee	xx:xx:xx:xx:78:90	239.12.67.192	198.12.57.227	EXCLUDE
				198.12.57.238	
6	210.23.171.ff	xx:xx:xx:xx:01:23	238.125.65.1	172.0.12.5	EXCLUDE
				61.143.221.2	
				61.143.221.3	
				61.143.221.5	

FIG. 16

IGMP MESSAGE FORMAT

MAC HEADER(14BYTE)	IP HEADER	IGMP MESSAGE	FCS
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FIG. 17

MLDV2 MESSAGE FORMAT

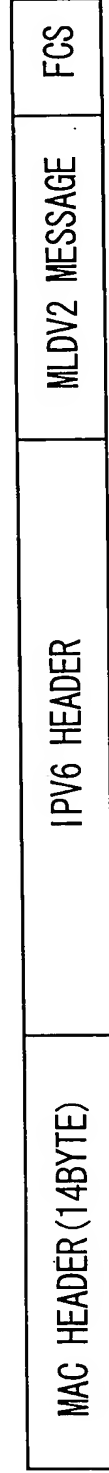
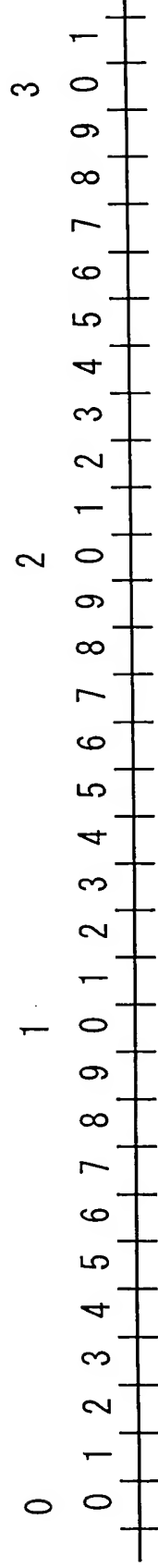


FIG. 18

IPV4 HEADER FORMAT (RFC791)



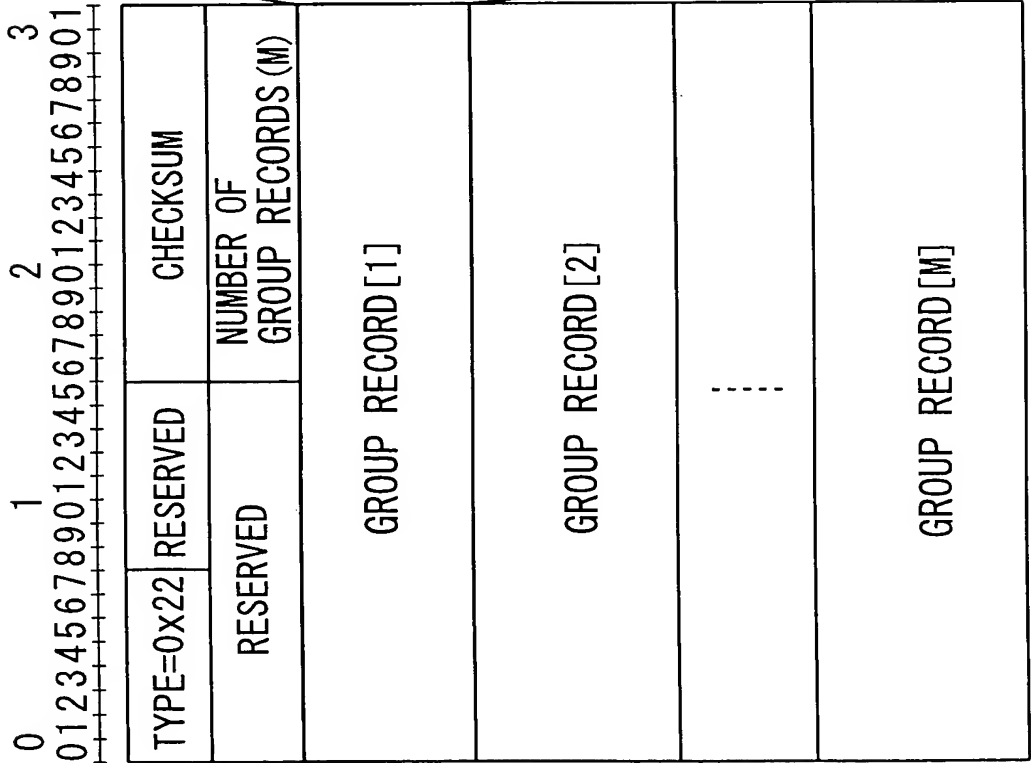
VERSION	IHL	TYPE OF SERVICE	TOTAL LENGTH	
IDENTIFICATION		FLAGS	FRAGMENT OFFSET	
		HEADER CHECKSUM		
TIME TO LIVE	PROTOCOL ID (=2)		SOURCE ADDRESS	
DESTINATION ADDRESS				
OPTIONS			PADDING	

FIG. 19

VERSION	TRAFFIC CLASS	FLOW LABEL	
PAYLOAD LENGTH		NEXT HEADER	HOP LIMIT
SOURCE ADDRESS			
DESTINATION ADDRESS			

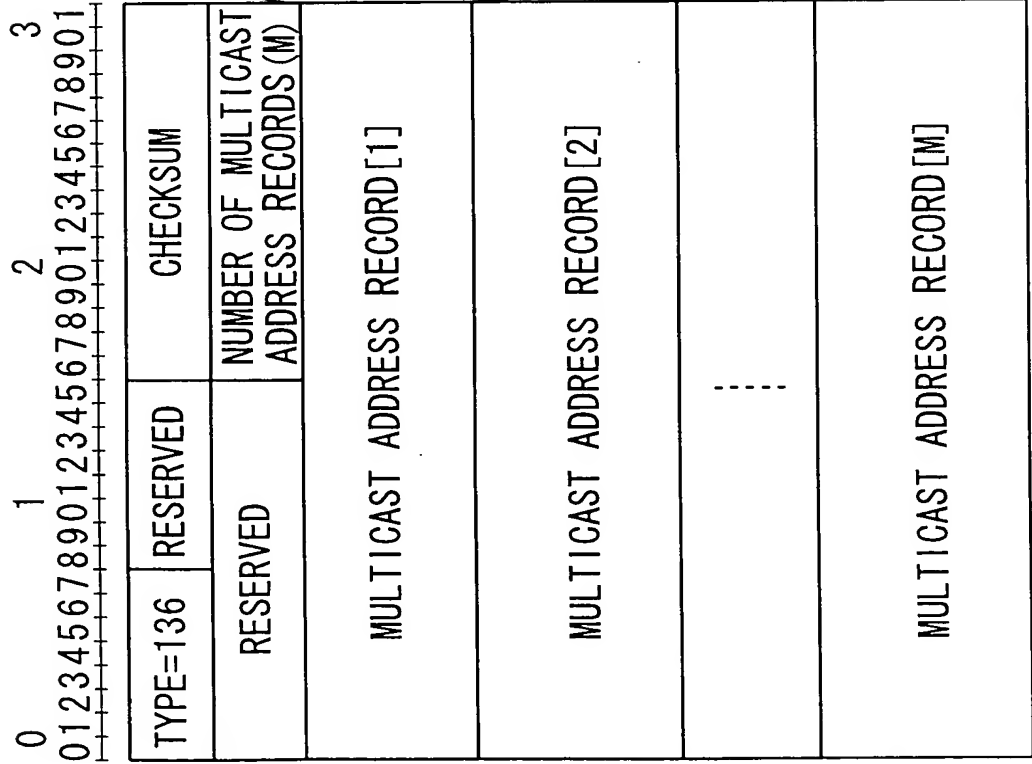
IPV6 HEADER FORMAT (RFC2460)

FIG. 20



RECORD TYPE	AUX DATA LENGTH	NUMBER OF SOURCES (N)
MULTICAST ADDRESS		
SOURCE ADDRESS [1]		
SOURCE ADDRESS [2]		
⋮		
SOURCE ADDRESS [N]		
AUXILIARY DATA		

FIG. 21



RECORD TYPE	AUX DATA LENGTH	NUMBER OF SOURCES (N)
MULTICAST ADDRESS		
SOURCE ADDRESS [1]		
SOURCE ADDRESS [2]		
...		
SOURCE ADDRESS [N]		
AUXILIARY DATA		

FIG. 22

24A

ENTRY NUMBER	CLIENT ADDRESS	CLIENT MAC ADDRESS	MULTICAST ADDRESS	SOURCE ADDRESS	FILTER MODE
.
.
.
7	210.23.171.gg	xx:xx:xx:xx:45:67	238.0.2.222	61.143.221.38	INCLUDE

FIG. 23

24A

ENTRY NUMBER	CLIENT ADDRESS	CLIENT MAC ADDRESS	MULTICAST ADDRESS	SOURCE ADDRESS	FILTER MODE
1	210.23.171.aa	xx:xx:xx:xx:12:34	238.0.0.123	61.143.221.2	EXCLUDE
			238.28.0.33	201.67.113.65	INCLUDE
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•

FIG. 24

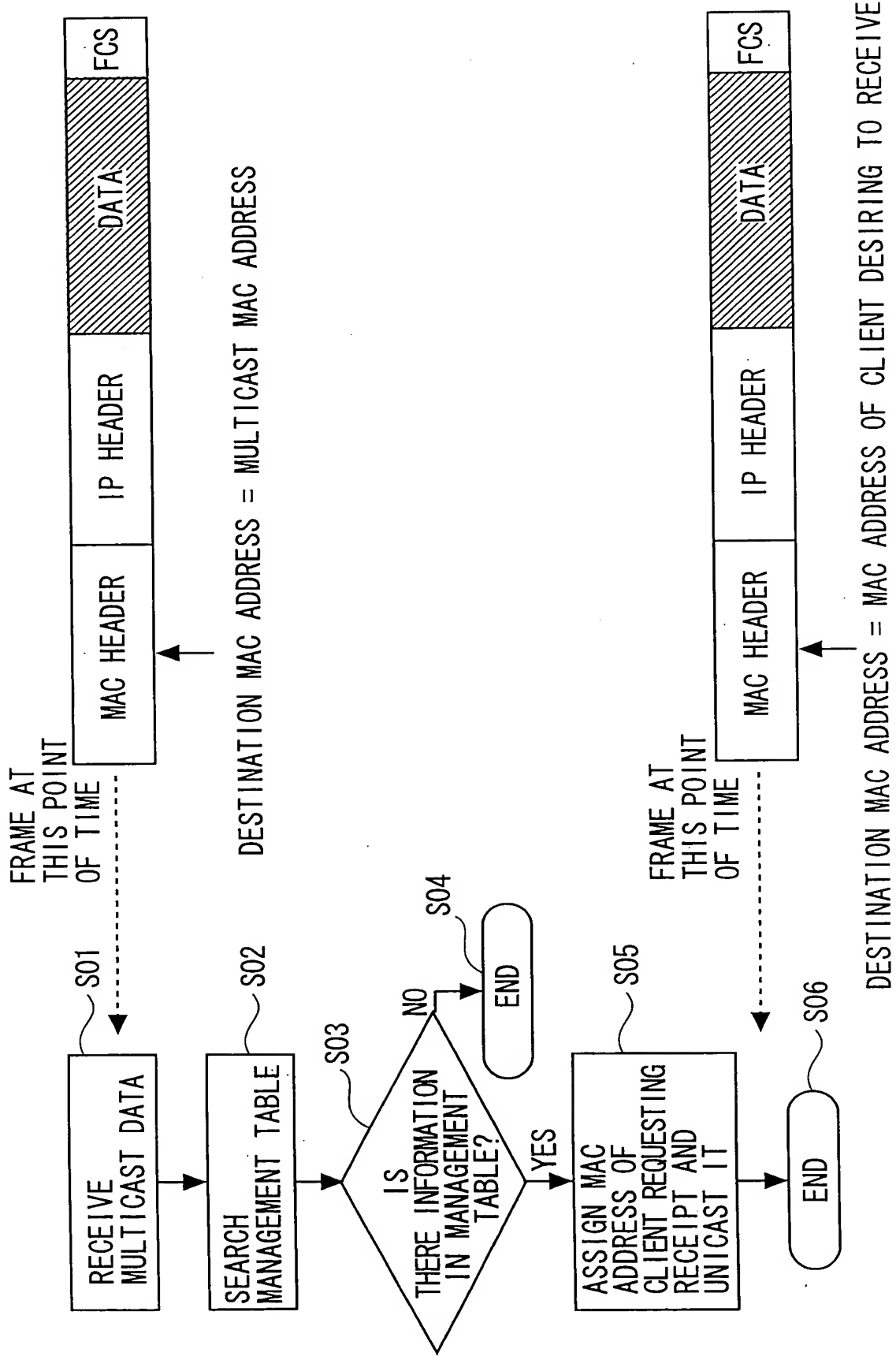


FIG. 25

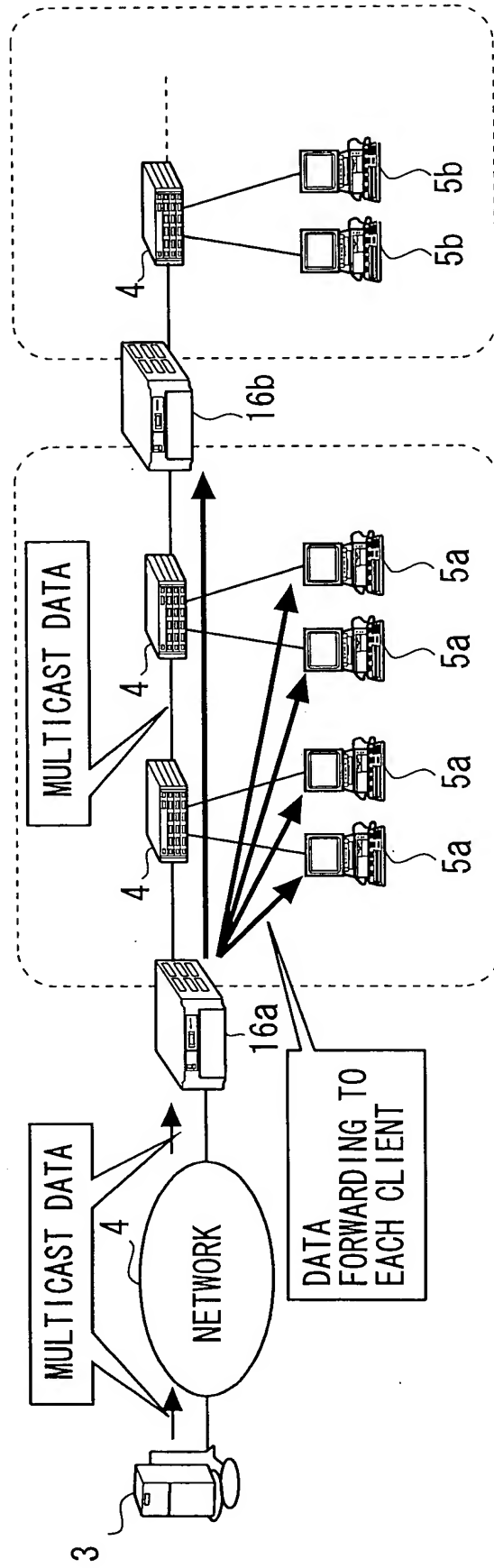


FIG. 26

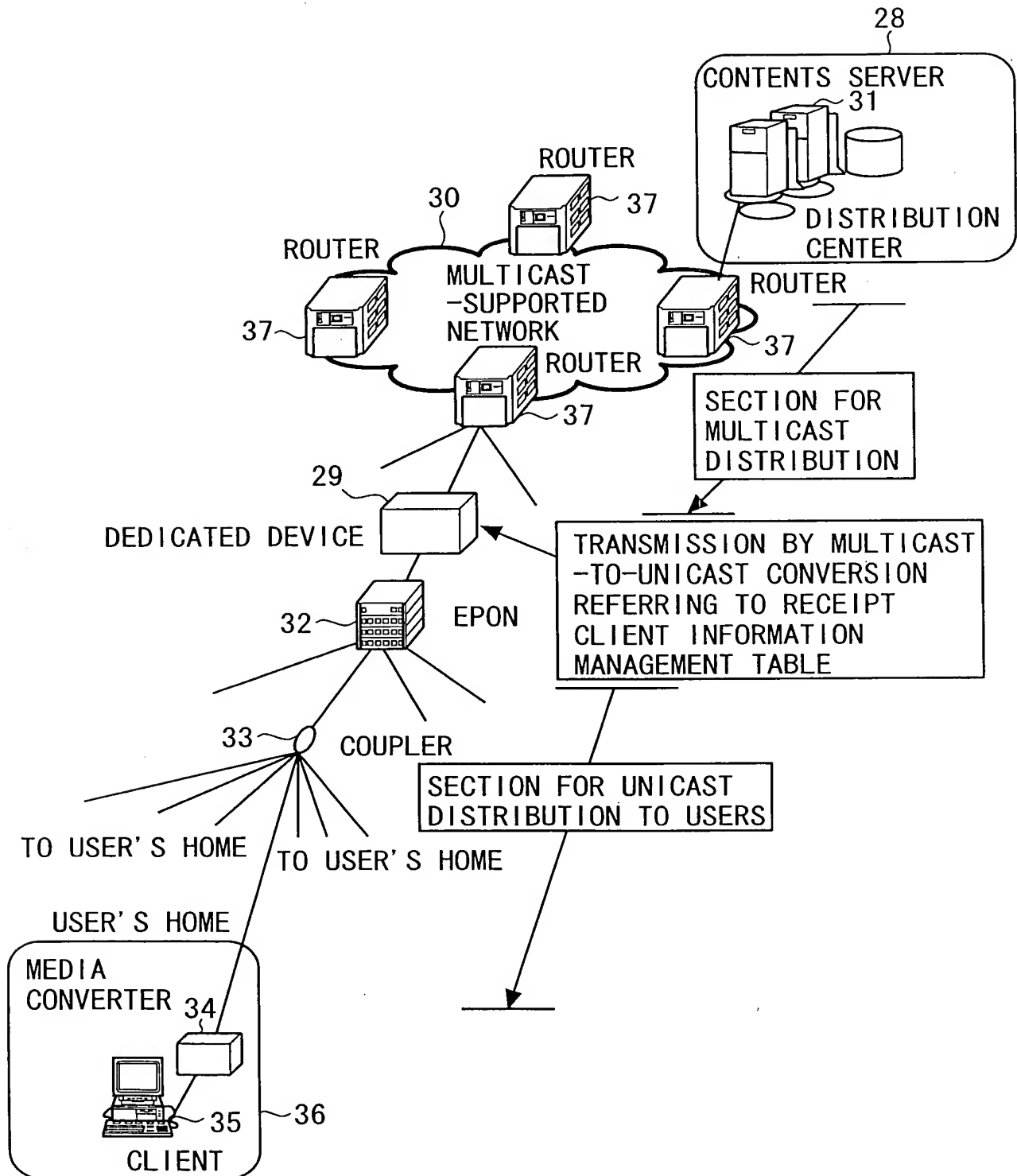


FIG. 27

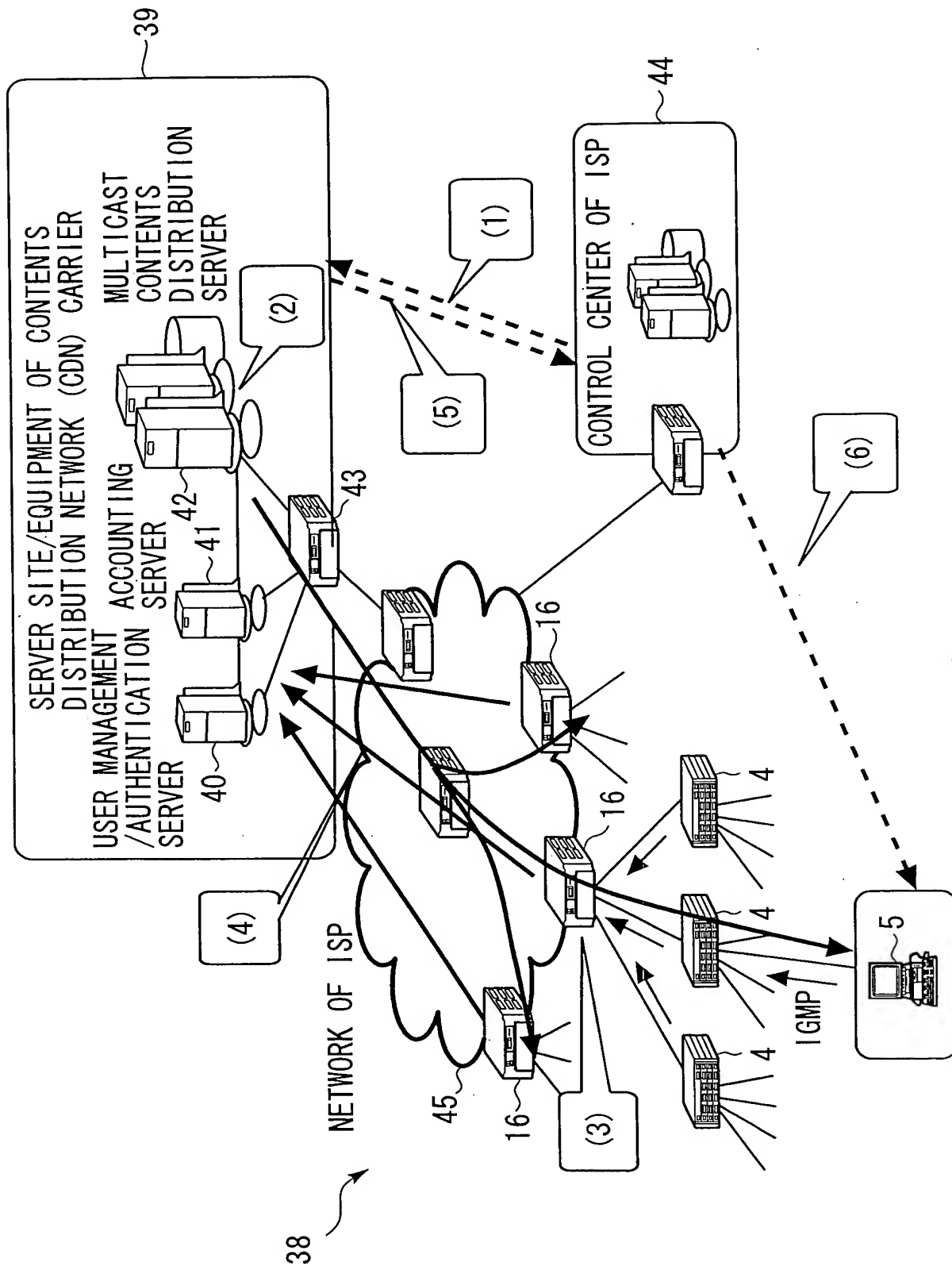


FIG. 28

USER MANAGEMENT TABLE

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USER NAME	USER ADDRESS (CLIENT ADDRESS)	RECEIPT CONTENT ADDRESS (MULTICAST ADDRESS)	RECEPTION STARTING TIME	RECEPTION ENDING TIME
A	xxx. xx. x. 111	238. 0. a. aaa	T11	T12
		238. 0. a. bbb	T13	T14
B	xxx. xx. x. 112	238. 0. a. bbb	T21	T22
C	xxx. xx. x. 113	238. 0. a. aaa	T31	T32
		238. 0. a. bbb	T33	T34
		238. 0. a. ccc	T35	T36
• • •	• • •	•	•	•
		•	•	•
		•	•	•
• • •	• • •	•	•	•
		•	•	•
		•	•	•
Y	xxx. xx. x. 124	238. 0. a. aaa	T241	T242
Z	xxx. xx. x. 125	238. 0. a. bbb	T251	T252

FIG. 29

